

## A survey of east Palaearctic Lycosidae (Araneae). I. On three closely related species of the *Pardosa falcata*-group

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**Abstract** — Three closely related species, *Pardosa azerifalcata* sp. n. (SE Azerbaijan), *P. jergenensis* Ponomarev 1979 (northern Ciscaucasia) and *P. falcata* Schenkel 1963 (northern China and Mongolia), represent a separate species group. Illustrated descriptions of the three species are given. *P. donabila* Roewer 1955 (Iran) may belong to this group as well. *P. falcata* was found to be a senior synonym of *P. crucifera* Schenkel 1963 syn. n. *P. falcata* was reported from Mongolia for the first time.

**Key words** — *Pardosa*, Lycosidae, wolf spiders, east Palaearctic, new species, taxonomy, distribution

### Introduction

Working on lycosids of Caucasus we found that a species occurring in southeastern Azerbaijan was remarkably similar to *Pardosa falcata* Schenkel 1963, known from China. From the figures provided by several authors it was not possible to discriminate these species. Therefore we decided to compare the two species, to check if they are not conspecific, and to provide detailed illustrated redescriptions of them. During our study we found that *P. jergenensis* Ponomarev 1979 from northern Ciscaucasia is also very similar to *P. falcata* and the species found in Azerbaijan.

Illustrations were made using both reflecting and transmitting light microscope with drawing and camera devices. Microphotographs were made by SEM Jeol JSM-5200 in the Zoological Museum, University of Turku. All measurements are given in millimeters.

The following abbreviations have been used for collections and museum: YM-Yuri M. Marusik's temporary collection in Zoological Museum, University of Turku; ZMMU-Zoological Museum, Moscow State University; ZMUT-Zoological Museum, University of Turku; ZISP-Zoological Institute, St. Petersburg.

### Survey of species

#### *Pardosa azerifalcata* sp. n.

(Figs. 1–5, 10–12, 17–18, 21–24, 29–31. Map 1)

Material examined: Holotype ♂ (ZMMU) and paratypes 2♂2

♀ (ZMMU and ZMUT), SE AZERBAIJAN, Ismailly Dist., Khanaya, 40°8'N 48°15'E, 700 m, 9.07.2001 (E. F. Guseinov).

**Diagnosis.** *P. azerifalcata* sp. n. is closely related to *P. falcata* Schenkel 1963 known from China (from Xinjiang to Jilin, and Inner Mongolia to Shaanxi) and south Mongolia (present record) and *P. jergenensis* Ponomarev 1979 (northern Ciscaucasia). Females of the three species can be separated by the shape and relative size of epigynal septum and partially by the color pattern. *P. azerifalcata* sp. n. has relatively (compared to *P. falcata*) longer apical part of septum, thinner receptacula and some other characters pointed by arrows on Figs. 10–14, 16. Males of the new species have different shape of palea, terminal apophysis, tegular apophysis and embolus (differences pointed by arrows in Figs. 1, 2, 4, 6, 7, 9). Basal part of embolus in *P. azerifalcata* sp. n. is distinctly thinner than in *P. falcata*, and embolus curved more strongly. Sibling species can be rather easily separated by color pattern (cf. Figs. 17–20), lighter in *P. falcata* and *P. jergenensis*, and distinctly darker in *P. azerifalcata* sp. n. *P. falcata* and *P. azerifalcata* sp. n. can be separated by spination as well by having 5 ventral spines on male metatarsus IV in *P. falcata* (4 in *P. azerifalcata* sp. n.) and only 1 retrolateral spine on metatarsi I–II in *P. falcata* (2 in *P. azerifalcata* sp. n.).

**Description.** Male. Body 5.50–5.63 long. Carapace: 3.0–3.38 long, 2.30–2.53 wide, dark brown, eye field black, yellow-brown band distinct in thoracic part only, lateral light stripes broken (Fig. 18). Sternum, labium and gnathocoxae grey. Sternum with light spot in anterior part. Chelicerae

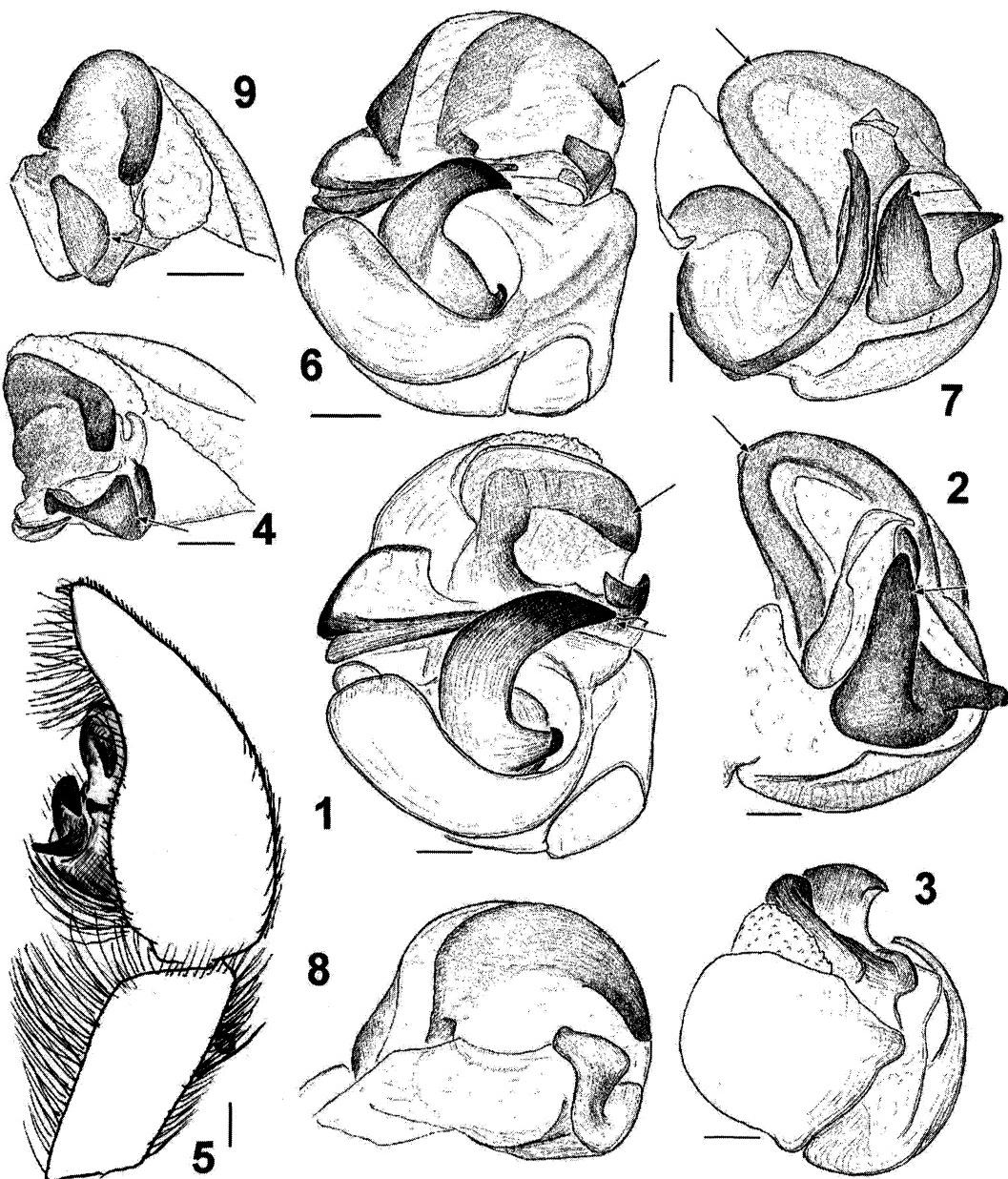
dark brown. Legs light yellow with light grey spots. Spination equal in both sexes. Abdomen dorsally grey with small sparse yellow spots, venter yellow with grey anterior part. Palp as in Figs. 1–5, 21–24, 29–30, with black cymbium covered with dense black hairs, tegular apophysis large with two well developed arms, base of embolus wide subdivided by furrow in two parts, tip of embolus slightly turned, terminal apophysis subdivided in two parts: one large bill shaped and another small one, palea with distinct ridge.

#### Leg measurements ( $\delta$ )

	femur	patella	tibia	metatarsus	tarsus	total
I	2.58	1.15	2.50	2.60	1.63	10.46
II	2.63	1.15	2.25	2.88	1.55	10.46
III	2.63	1.18	2.38	3.38	1.38	10.95
IV	3.38	1.38	2.75	4.95	2.05	14.51

#### Spination of legs ( $\delta$ and $\varphi$ )

	femur	patella	tibia	metatarsus
I	3d+2p+2r	2d+1p+1r	3-3v+2d+2r+2r	2-2v+2p+2r
II	3d+2p+2r	2d+1p+1r	3-3v+2d+2r+2r	2-2v+2p+2r
III	3d+2p+2r	2d+1p+1r	2-2v+2d+2p+2r	2-2v+2p+2r
IV	3d+2p+1r	2d+1p+1r	2-2v+2d+2p+2r	2-2v+2p+2r



Figs. 1–9. Male palp of *Pardosa azerifalcata* sp. n. (1–5) and *P. jergeniensis* Ponomarev (6–9). —1, 6, bulbus, ventral view; 2, tegulum, view from above; 3, apical portion of the bulb, view from above; 4, 9, apical portion of bulbus, retrolateral view; 5, palp, retrolateral view; 7, embolus and tegulum, view from above. Scales: 0.1 mm.

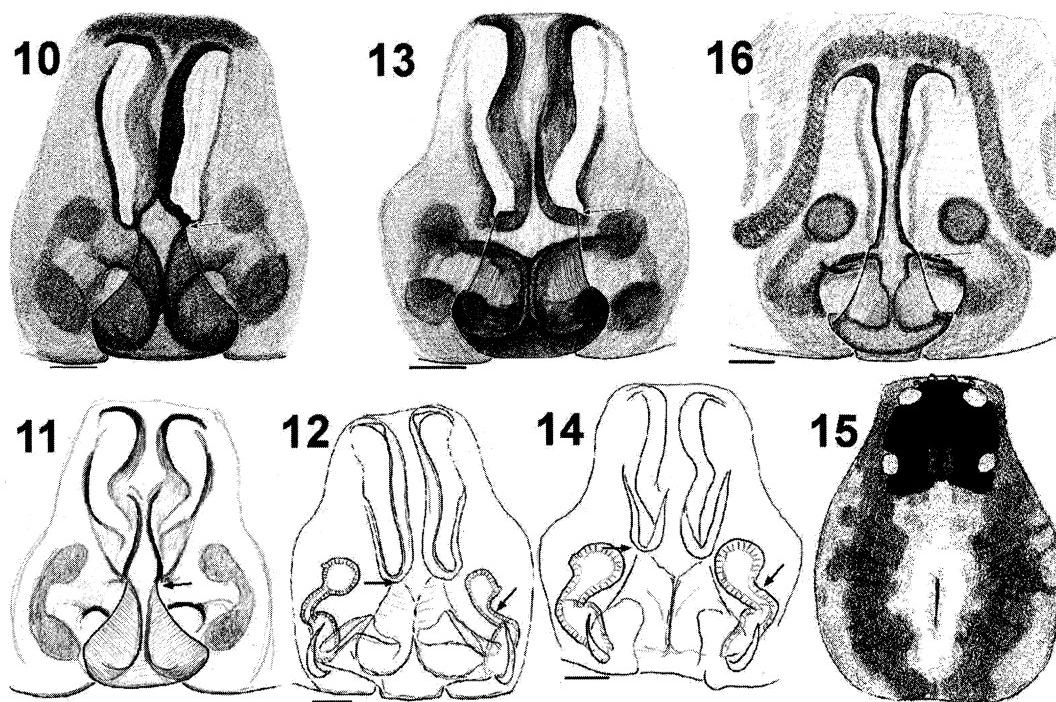
Female. Body 8.25 long. Carapace: 3.38–3.50 long, 2.63–2.80 wide, median band lighter and wider than in male, lateral light stripes penetrate to cephalic part (Fig. 17). Sternum with dense light hairs and median band along almost whole sternum. Gnathocoxae and chelicerae yellow. Legs with more distinct and dark rings. Abdominal pattern formed with larger and more distinct yellow spots, venter light grey. Epigyne as in Figs. 10–12, 31, with long and thin septum, beginning of basal part of septum (free part) is equal in width to septal stem, pockets untouched, fovea partly visible.

## Leg measurements (♀)

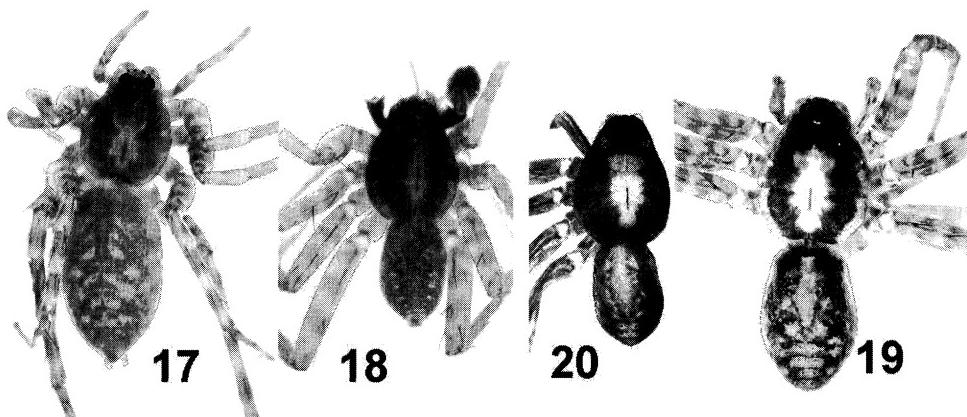
	femur	patella	tibia	metatarsus	tarsus	total
I	3.50	1.53	3.10	3.20	1.88	13.21
II	3.35	1.55	2.90	3.13	1.60	12.53
III	3.40	1.50	2.85	3.75	1.63	13.13
IV	4.40	1.53	3.90	6.05	2.38	18.26

*Distribution.* Known from the type locality only.

*Etymology.* The specific name is an arbitrary combination of letters derived from two words “Azerbaijan” and “falcata”, showing area of distribution and relationships.



Figs. 10–16. Epigyne and carapace of *Pardosa azerifalcata* sp. n. (10–12), *P. falcata* Schenkel (13–15) and *P. jergeniensis* Ponomarev (16). —10–11, 13, 16, epigyne, ventral view; 12, 14, epigyne, dorsal view; 15, female carapace. Scales: 0.1 mm.



Figs. 17–20. Pattern of *Pardosa azerifalcata* sp. n. (17–18) and *P. falcata* Schenkel (19–20). —17, 19, female; 18, 20, male.

*Pardosa falcata* Schenkel 1963  
(Figs. 13–15, 19–20, 25–28, 32–34. Map 1)

*Pardosa falcata* Schenkel 1963, p. 363, f. 210a–b (♂) (holotype ♂ in NMNH; not examined).

*P. crucifera* Schenkel 1963, p. 374, f. 217a–c (♀) (holotype ♀ in NMNH; not examined). **New Synonymy**

*P. falcata*: Yin et al. 1997, p. 99, f. 92a–f (♂♀); Song et al. 1999, p. 330, f. 194J, U (♂♀); Song et al. 2001, p. 249, f. 153A–D (♂♀).

*Material examined*: 2♂ 2♀ (YMT), MONGOLIA, South-Gobi Aimak, 42°30'N ~105°E, 18.07.1999 (M. Unruch) (New state record).

*Diagnosis*. See in *P. azerifalcata* sp. n. Color pattern of this species is rather similar to those in *P. jergenensis*, however male abdomen is darker (without yellow spots).

*Description*. Male. Body 5.25–5.50 long. Carapace: 2.8–3.0 long, 2.13 wide, dark brown, eye field black, median band yellow widening in cephalic part brownish, lateral light stripes absent (Fig. 20). Sternum dark brown, with yellow median stripe in anterior half. Labium and chelicerae dark brown. Gnathocoxae light brown. Legs yellow, femora with longitudinal dark stripes dorsally. Spination different from that in female. Abdomen with yellow pattern of heart mark and two series of oval spots, sides blackish, venter of abdomen yellow with grey median band, area between pedicel and epigastral furrow grey. Palp as in Figs. 25–28, 32–33, cymbium black, covered with black hairs, other palp joints brown, tegulum elongated, tegular apophysis large with two well developed arms, base of embolus thin subdivided by furrow in two parts, embolus nearly straight, terminal apophysis subdivided in two equal parts, palea with distinct ridge.

Leg measurements (♂)

	femur	patella	tibia	metatarsus	tarsus	total
1	1.98	0.85	1.75	2.00	1.33	7.91
2	1.80	0.85	1.60	1.85	1.33	7.43
3	1.90	0.83	1.50	2.05	1.10	7.38
4	2.63	0.93	2.18	3.25	1.53	10.52

Spination of legs (♂)

	femur	patella	tibia	metatarsus
I	3d+2p+2r	2d+1p+1r	3-3v+2d+2p+2r	2-2v+2p+2r
II	3d+2p+2r	2d+1p+1r	3-3v+2d+2p+2r	2-2v+2p+2r
III	3d+2p+2r	2d+1p+1r	2-2v+2d+2p+2r	2-2v+2p+2r
IV	3d+2p+1r	2d+1p+1r	2-2v+2d+2p+2r	3-3v+2p+2r

Female. Body 7.5–7.6 long. Carapace: 3.38–3.88 long, 2.5–2.88 wide, brown, with wide yellow median band and lateral stripes reaching cephalic part, cephalic part black with two longitudinal stripes between PME (Fig. 15). Sternum dark brown with yellow median stripe in anterior part and series of yellow spots laterally. Labium and gnathocoxae yellow. Chelicerae yellow with brown stripes.

Legs yellow with grey rings. Abdominal pattern like in male while with more yellow spots, sides and venter light yellow (Fig. 19). Epigyne as in Figs. 13–14, 34, with long and thin septum, beginning of basal part of septum (free part) is wider than septal stem, pockets untouched, fovea partly visible.

Leg measurements (♀)

	femur	patella	tibia	metatarsus	tarsus	total
I	2.80	1.30	2.38	2.38	1.70	10.56
II	2.80	1.35	2.25	2.38	1.58	10.36
III	2.75	1.30	2.20	2.80	1.40	10.45
IV	3.68	1.45	3.30	5.10	2.15	10.52

Spination of legs (♀)

	femur	patella	tibia	metatarsus
I	3d+2p+2r	2d+1p+1r	3-3v+2d+2p+2r	2-2v+1p+1r
II	3d+2p+2r	2d+1p+1r	3-3v+2d+2p+2r	2-2v+2p+1r
III	3d+2p+2r	2d+1p+1r	2-2v+2d+2p+2r	2-2v+2p+2r
IV	3d+2p+1r	2d+1p+1r	2-2v+2d+2p+2r	2-2v+2p+2r

*Distribution*. This species was known to be distributed in northern China, from Xinjiang to Jilin and from Gansu to Shandong (Song et al. 1999). From Mongolia the species is reported for the first time. Judging from occurrence of the species in Jilin it is possible to expect its presence in adjacent Maritime Province of Russia.

*Pardosa jergenensis* Ponomarev 1979  
(Figs. 6–9, 16. Map 1)

*Pardosa jergenensis* Ponomarev 1979, p. 1589, fig. 1a–b (♂♀) (holotype ♀ and paratype ♂ in ZISP; examined).

*P. jergenensis*: Guseinov & Rubtsova 2001, p. 237 (misidentification).

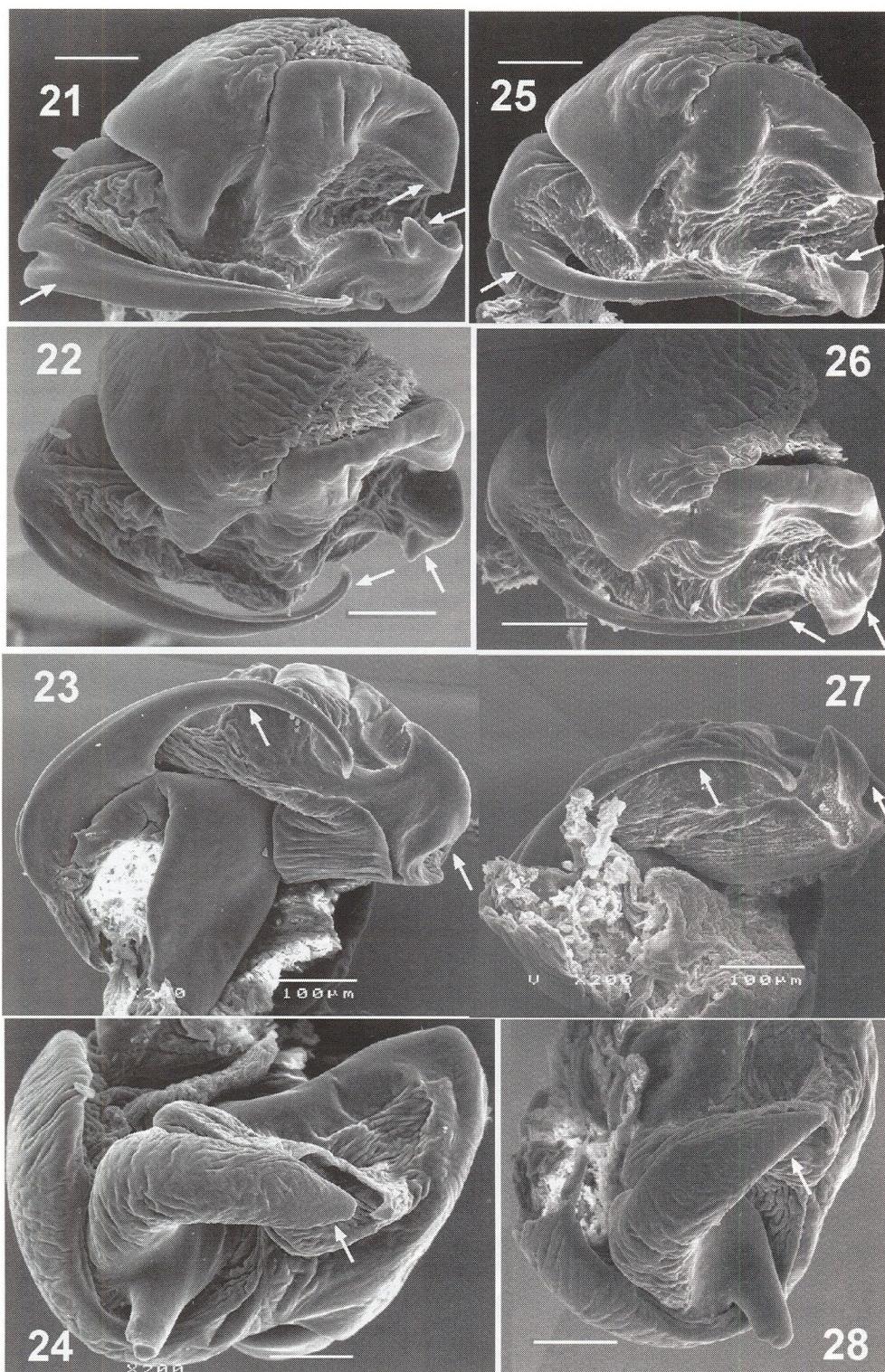
*Material examined*: ♀ holotype and 1♂ paratype (ZISP), KAZAKHSTAN, Atyrau (=Guryev) Area, Rengizsky Dist., cf. 20km NE of Ganyushkino Vil., lake shore, 20.05.1977 (A. V. Ponomarev).

*Diagnosis*. This species can be easily separated from the sibling *P. falcata* and *P. azerifalcata* sp.n. by color pattern and copulatory organs. Males of this species unlike two other have distinct yellow abdominal pattern (like in female). Basal arm of tegular apophysis is subequal in length to the apical arm, tegulum of this species is clearly shorter than in two sibling species and tegular ridge is distinctly smaller. Epigynal septum of this species is relatively thin, but fovea large with distinct lateral margins.

*Description*. Male. Body 4.5 long. Carapace: 2.5 long, 1.9 wide, dark brown, eye field black, median band yellow with clear margins, its widening in cephalic part brownish, submarginal band broken, light brown. Sternum dark brown, with yellow median stripe in anterior half. Labium and chelicerae dark brown. Gnathocoxae light brown. Legs yellow with brown rings. Spination equal to female. Abdomen with distinct yellow pattern of heart mark, two parallel

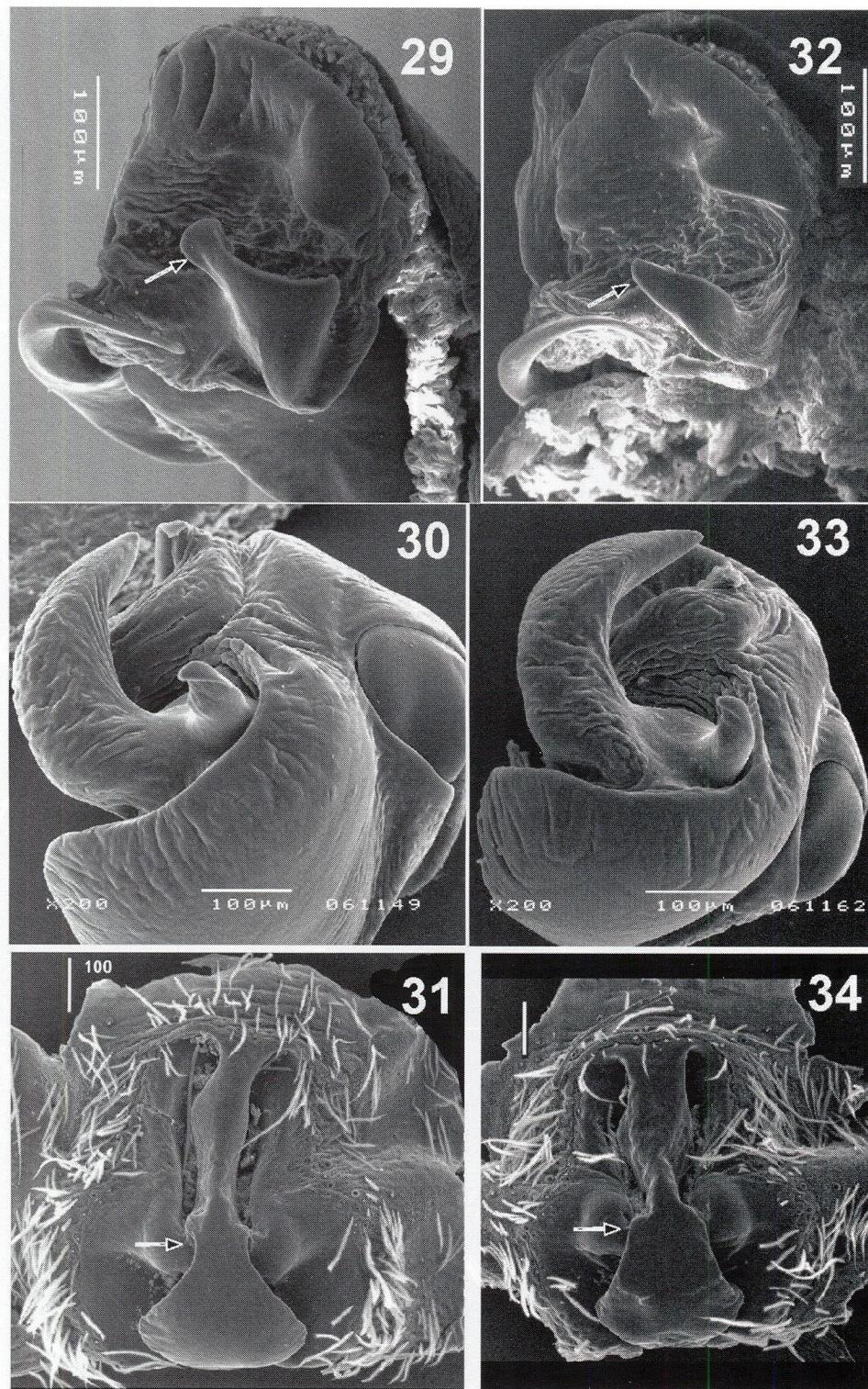
longitudinal bands aside, and series of transverse pairs of oval spots, sides blackish, venter of abdomen yellow with gray median band, area between pedicel and epigastral furrow gray. Palp as in Figs. 6–9, cymbium black, covered

with black hairs, other palp joints brown, tegulum elongated, tegular apophysis large with two well developed arms, bases of embolus thin subdivided by furrow in two parts, embolus relatively thick (in view from above), termi-

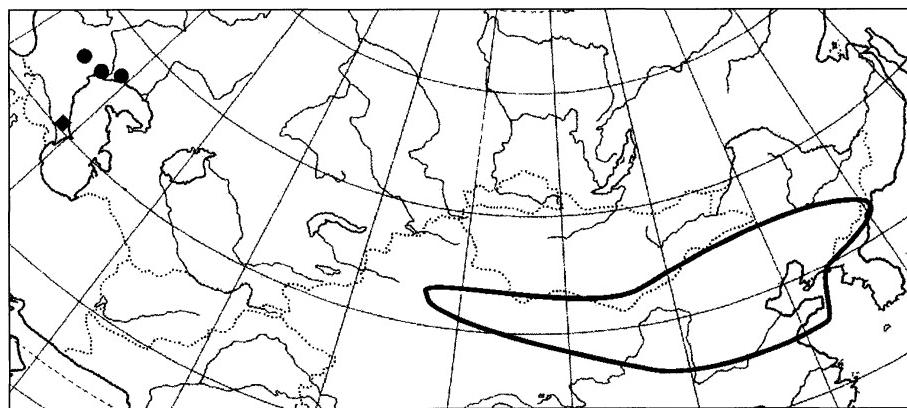


**Figs. 21–28.** Male palp of *Pardosa azerifalcata* sp. n. (21–24) and *P. falcata* Schenkel (25–28). —21, 25, apical portion of the bulbus, ventral view; 22, 26, same, view from above; 23, 27, same, view from below; 24, 28, tegulum, view from above. Scales: 0.1 mm.

nal apophysis subdivided in two parts, large terminal and twice smaller subterminal part, palea with distinct ridge.



Figs. 29–34. Copulatory organs of *Pardosa azerifalcata* sp. n. (29–31) and *P. falcata* Schenkel (32–34). —29, 32, apical portion of the bulbus, retrolateral view; 30, 33, tegulum, ventral view; 31, 34, epigyne, ventral view. Scales: 0.1 mm.



**Map 1.** Distribution of three sibling species: *Pardosa azerifalcata* sp.n. (♦), *P. jergeniensis* Ponomarev (●) and *P. falcata* Schenkel (—).

#### Leg measurements (♂, leg I missing)

	femur	patella	tibia	metatarsus	tarsus	total
II	1.65	0.75	1.25	1.5	1.1	6.25
III	1.6	0.7	1.35	1.7	1.1	6.45
IV	2.25	0.9	1.9	2.6	1.25	8.9

Female. Body 7.6 long. Carapace: 3.5 long, 2.75 wide, pattern like in *P. falcata* with wide yellow median band and lateral stripes reaching cephalic part, cephalic part black with two longitudinal stripes between PME. Sternum dark brown with yellow median stripe in anterior part and yellow margins. Labium and gnathocoxae yellow. Chelicerae yellow with brown stripes. Legs yellow with brown rings. Abdominal pattern with contrast. Epigyne as in Fig. 16, with long and thin septum, septal base equal in width to apical pockets spread, basal part of septum about twice time shorter than stem (stem/basal part ratio 0.64), fovea with distinct lateral margins, transparent receptacula placed over basal part of septum.

#### Leg measurements (♀)

	femur	patella	tibia	metatarsus	tarsus	total
I	1.7	1.2	2.4	2.25	1.5	9.05
II	2.6	1.2	2.2	2.15	1.45	9.6
III	2.55	1.25	2.2	2.5	1.5	10
IV	3.5	1.25	3.25	4.65	1.9	14.55

#### Spination of legs (♂ and ♀)

	femur	patella	tibia	metatarsus
I	3d+2p+2r	2d+1p+1r	3-3v+2d+2p+2r	2-2v+2p+2r
II	3d+2p+2r	2d+1p+1r	3-3v+2d+2p+2r	2-2v+2p+2r
III	3d+2p+2r	2d+1p+1r	2-2v+2d+2p+2r	2-2v+2p+2r
IV	3d+2p+1r	2d+1p+1r	2-2v+2d+2p+2r	2-2v+2p+2r

**Distribution.** The species is known so far by the type series: Kalmykia and northwestern Kazakhstan (Map 1) only (cf. Mikhailov 1997). Record of this species from

Azerbaijan (Guseinov & Rubtsova 2001) refers to another species.

#### Discussion and comments

Three closely related species, *P. azerifalcata* sp. n., *P. falcata* and *P. jergeniensis* represent a separate species group within the genus *Pardosa*. When Zyuzin (1979) included *P. falcata* (sub *P. crucifera* Schenkel 1963, known by female only) to the *wagleri*-group, he left *P. falcata* (known at that time by male only) without grouping. Ponomarev (1979) attributed his species to the *wagleri* group as well. Conformation of male palp (chitinised palea in terminal part, long and strong basal arm of tegular apophysis) and epigyne (wide apical part of septum with parallel margins) of these two species are clearly different from these in representatives of the *wagleri* group.

Judging from the shape of epigyne and color pattern of *P. falcata* (Figs. 13–15) and illustrations of these in *P. crucifera* (cf. Figs. 217a–c in Schenkel 1963) and distribution of these taxa it is clear that they are conspecific, and therefore we synonymize them. As the description of *P. falcata* appeared earlier in the text (p. 363) and this name was used by many Chinese authors, and *P. crucifera* was described on page 373 and since original description was never recognized (identified) we treat *P. crucifera* syn.n. as a junior synonym of *P. falcata*. Interestingly *P. crucifera* was never listed in surveys of Chinese wolf spiders (cf. Yin et al. 1997; Song et al. 1999, 2001).

It seems that *Pardosa donabila* Roewer 1955 (cf. Figs. 1–2, in Roewer 1955), known from Iran, belongs to the same species group. However, it is larger than the other species (male 8 mm, female 9 mm).

It is worth mentioning that the *P. falcata* species group with three known sibling species, *P. azerifalcata* sp. n., *P. falcata* and *P. jergeniensis*, has a rather rare disjunctive Caspian-Chinese range. Around ten species of spiders from different families (Salticidae, Theridiidae, Thomisidae, Uloboridae) and several supraspecific taxa have Caucasian-Far Eastern range with a gap about 70°, and disjunction in

*P. falcata* group is only about 35° (cf. Map 1). Up to now we know only one very similar case in Linyphiidae: *Tiso camillus* Tanasevitch 1990. This species occurs in Azerbaijan and Xinjiang-Tuva, cf. Marusik et al. [2000, sub *Bishopiana glumacea* (Gao, Fei & Zhu 1992)]. Among sibling species of lycosids disjunctive ranges seem to be very rare. We can list as example only a pair of geographically distant allied species: *Acantholycosa sterneri* (Marusik 1993) (South Siberia) and *A. solituda* (Levi & Levi 1951) (Rocky Mountains) (cf. Kronestedt & Marusik 2002).

### Acknowledgments

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旧北区東部のコモリグモ科の調査. オオアシコモリグモ属 *falcata* 種群の近縁 3 種 (pp. 43-50)

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オオアシコモリグモ属の *Pardosa azerifalcata* sp. n. (アゼルバイジャン南東部), *P. jergenensis* Ponomarev 1979 (カスピ海北東部) と *P. falcata* Schenkel 1963 (中国北部とモンゴル) の 3 種は、一つの近縁種群 *falcata* 種群を構成する。これら 3 種の記載および再記載をおこなった。イランから知られる *P. donabila* Roewer 1955 も本種群の一員かもしれない。*P. crucifera* Schenkel 1963 は *P. falcata* の新参シノニムである。*P. falcata* をモンゴルから初めて記録した。(和訳: 編集委員会)

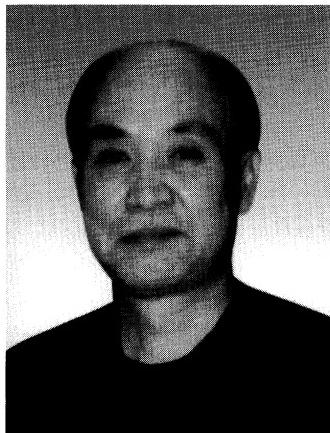
本州西部から得られたナミハグモ科の新種 *Cybaeus akiensis* およびその生態に関する知見 (pp. 51-57)

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本州西部に分布するナミハグモ科の新種を記載した。*Cybaeus akiensis* n. sp. アキナミハグモ(新称)は中型のナミハグモで、同所的にみられる *C. kuramotoi* ナガトナミハグモや、九州に分布する *C. ashikitaensis* アシキタナミハグモとよく似ている。本州西部では、同一地域に生息するナミハグモ属は、体サイズの異なる 5, 6 種で構成される。*C. akiensis* は、そのなかで 2 番目に大型の種である。採集状況から、本種は成体と幼体のいずれも越冬し、成熟するまでに 2 年を要することがわかった。また、日本産のナミハグモの多くは両端に 2 つの出入口のあるトンネル状の住居を作るが、本種の住居は両端の開口部だけでなく内部に逃げ道をもつ。

## 計 報 Obituaries

### 藤井靖浩さんを悼む



12月15日（2002年）  
 に新海栄一さんから連絡を受けて、私は絶句した。  
 14日に藤井靖浩さんが亡くなられたという知らせである。夏頃までメールのやり取りをしていたので、とても信じられない。17日のお葬式には講義 2 つを休講にして、何が何でも行くつもりだったが、どうしても出席しなければならない会議があって、行くことができ

なかつた。

そこで、年が明けて新宿で行われた分類学会連合のシンポの帰りに、お焼香をしに埼玉県日高市のご自宅に伺った。奥さんの話によると、彼は子供のときに肺炎を患ったことがあり、その後も肺のレントゲンで引っかかることがあったという。昨年の春にも肺に翳があるというので精密検査をすすめられたのだが、『風邪だろう』と放置していた。その後体調をこわして入院し、肺癌の末期と診断された。

本人は絶対に復帰するつもりで、「今の時点で最善の治療は何か?」など、かなり踏み込んだ話を医者とやっていたらしい。12月のはじめには一時帰宅し、年賀状も書いていた。「今年いっぱいはもつだろう」と医者が言っていたらしいが、亡くなる数日前に不整脈が出て、検査の最中に血管が破裂したらしい。入院して 50 日。あまりにもあっけない最後であった。

藤井さんは蜘蛛学会の古い会員で、私は大学院生のときからの 30 年以上の長い付き合いであった。彼は東京教育大学(現、つくば大学)、私は京都大学と、大学は異なるが年齢も学年も同じ。ともにクモの生態学を志しており、その当時クモの生態を調べている研究者は少なかったから、私たちはすぐに仲良くなつた。頭が切れ、スマートで、若くして結婚した彼に対して、私は嫉妬に似た感情を持っていたかもしれない。

蜘蛛学会との関わりでは、彼は 1981 年から 83 年まで *Acta* の編集委員、88 年から 90 年まで評議員、88 年から 92 年まで *Atypus* の編集委員を務めた。私も同じ時期に評議員を務め、会則や諸規程の見直しなどの作業をいっしょにやって、「会員数の減少をいかにして止めるか?」など、蜘蛛学会のあり方について種々議論をした覚えがある。

彼は家庭では、面倒見の良い父親であり、夫であった。「亡くなつてはじめて、あれもこれもびっくりするほど多くのことを夫がやってくれていたと、実感しています」とは、奥さんの弁である。次男が生れ、やがて障害児であることが分かった時点から、「土・日は必ず家にいて次男の相手をする」と、彼は自分で決めた。「私が観るから、研究でも学会でも行ってきて」と奥さんは言っていたようだが、彼はガンとして自分の意志を貫いた。この頃から彼の足は、蜘蛛学会から少しづつ遠のいていった。

研究者としての彼は、完全主義者であった。コモリグモ類の生態的特性に関する膨大なデータを集めているが、書かれた論文の数は多くない(論文リスト参照)。ちょっとでも不完全なところがあると、放っておけずに新たなデータを取ろうとするタイプである。フィールドは埼玉の自宅の近くであり、彼の勤務地は東京だったから、休日にしかデータを取ることができなかつたはずである。それでも、1970 年代と 80 年代には、彼は